

# BELZONA RESTORES OIL & GAS FLOAT CELL VESSEL

ID: 5667

**Industry:** Oil & Gas  
**Application:** TCC-Tanks and Chemical Containment Areas  
**Substrate:** Carbon steel  
**Products:** \* Belzona 1121 (Super XL-Metal) ,  
\* Belzona 5811 (Immersion Grade) ,

**Customer Location:** Gulf of Mexico, USA  
**Application Date:** May 2015

## Problem

The oil bucket which ran along the length of the vessel was developing frequent through-wall defects. These holes inhibited the float cell from properly separating produced water from oil & gas.



## Photograph Descriptions

- \* Float Cell before. Note oil bucket runs on right hand side of vessel . ,
- \* Cold Plate Bonding illustration generated as part of proposal . ,
- \* Cold Plate Bonding complete on a portion of the float cell . ,
- \* Two coat system of Belzona 5811 installed as a corrosion barrier . ,

## Application Situation

Float Cell Vessel on a deep-water oil & gas platform.

## Application Method

The application was carried out in accordance with a modified Belzona Know-How System Leaflet TCC-1 and TCC-3. Belzona 1121 was used to cold-plate bond on both sides of thin-wall/through-wall damaged areas of the oil bucket, and Belzona 5811 was used to coat all internal surfaces for a corrosion barrier.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

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## Belzona Facts

The client initially asked for a short-term solution to plug holes in the oil bucket while a new float cell was fabricated. The new float cell was budgeted at US \$500,000 and would include shutting down the production for installation at an approximate cost of US \$1,000,000.00 in lost production per day. When offered a restoration of internal oil bucket through Belzona 1121 cold plate bonding (eliminated hot work), and a Belzona 5811 internal corrosion barrier, the client saw the many benefits and selected this route. The client's selected contractor installed the system in 1.5 weeks with a total cost of approximately US \$50,000, including Labor and Material, and no need to shut down the production. The increased safety of reducing hot work, the direct savings of US \$450,000, and the indirect savings in the millions, have shown this client the benefit of using Belzona to repair, protect, and improve.

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